

**DNA MOLECULES AND PROTEIN DISPLAYING IMPROVED
TRIAZINE COMPOUND DEGRADING ABILITY**

Abstract of the Disclosure

5 This invention relates to the identification of homologs of atrazine
chlorohydrolase and the use of these homologs to degrade *s*-triazine-containing
compounds. In particular, this invention includes the identification of homologs
of atrazine chlorohydrolase encoded by a DNA fragment having at least 95%
homology to the sequence from the nucleic acid sequence beginning at position
10 236 and ending at position 1655 of SEQ ID NO:1, where the DNA fragment is
capable of hybridizing under stringent conditions to SEQ ID NO:1 and has
altered catalytic activity as compared with wild-type atrazine chlorohydrolase.